

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

Annexure VI

Name of the Company:

NTPC Ltd.

Name of the Power Station:

Kawas GPS

(Rs. In Lakhs)

Sl. No.	Items	2008-09	2009-10	2010-11	2011-12	2012-13
1	Consumption of stores & spares	741.84	933.87	1033.95	867.64	1023.50
2	Repair & Maintenance	758.60	1235.48	1034.59	1087.34	981.40
3	Insurance	70.83	125.12	141.70	139.60	143.91
4	Security	372.05	445.05	509.52	630.93	741.50
5	Water Charges	544.69	707.47	743.10	779.45	672.38
6	Administrative Expenses					
6.1	Rent	0.89	0.89	0.89	0.89	0.89
6.2	Electricity charges	266.13	190.75	182.53	191.01	195.46
6.3	Travelling & Conveyance	137.77	153.13	175.38	189.42	178.13
6.4	Communication Expenses	32.92	35.99	38.74	40.30	42.74
6.5	Advertising	12.33	1.83	19.31	3.11	2.97
6.6	Foundation Laying & Inauguration	0.00	0.00	0.00	0.00	0.00
6.7	Donation	0.00	0.00	0.00	0.00	0.00
6.8	Entertainment	7.90	8.63	11.54	9.61	8.79
6.9	Filing fee	0.00	13.12	13.12	13.12	26.25
	Subtotal (Administrative Expenses)	457.94	404.35	441.52	447.47	455.22
7	Employee Cost					
7.1	- Salaries, Wages & Allowances	2170.90	2060.65	2732.39	2603.66	3076.89
7.2	- Staff Welfare expenses	366.16	321.90	325.85	309.81	385.75
7.3	- Incentive	68.97	82.58	90.23	98.89	89.42
7.4	- Expenditure on VRS	0.00	0.00	0.00	0.00	0.00
7.5	- Ex-gratia	0.00	58.20	61.85	67.38	67.52
7.6	- Performance Related Pay (PRP)	160.80	251.95	152.12	247.37	233.05
	Sub Total (Employee Cost)	2766.84	2775.29	3362.44	3327.11	3852.64
8	Loss of Store	0.05	0.25	0.00	0.00	0.70
9	Provisions	255.68	57.60	0.15	0.01	23.29
10	Prior Period Expenses	0.00	0.00	0.00	0.00	0.00
11	Corporate Office expenses allocation	1636.35	1483.96	1830.08	1727.04	1687.40
12	Others					
12.1	Rates & Taxes	42.97	50.84	57.11	65.76	68.36
12.2	Water cess	7.25	-1.99	2.47	517.97	536.58
12.3	Training & recruitment expenses	12.08	22.77	19.85	21.40	19.47
12.4	Tender Expenses	16.65	26.55	14.74	11.10	6.23
12.5	Guest house expenses	7.72	11.84	15.92	14.75	15.73
12.6	Education expenses	30.90	38.55	21.67	19.81	23.06
12.7	Community Development Expenses	32.27	36.73	35.30	53.42	36.90
12.8	Ash utilisation expenses	0.00	0.00	0.00	0.00	0.00
12.9	Books & Periodicals	0.53	0.74	0.30	0.65	0.49
12.1	Professional Charges	4.15	13.09	24.46	6.53	7.52
12.11	Legal expenses	2.82	8.96	7.97	3.84	13.29
12.12	EDP Hire & other charges	12.10	16.18	8.05	10.54	8.23
12.13	Printing & Stationery	9.45	10.25	7.87	14.86	12.28
12.14	Misc and other Expenses	59.50	65.24	958.03	299.50	420.73
	Sub Total (Others)	238.39	299.78	1173.73	1040.11	1168.88
13	(Total 1 to 12)	7843.26	8468.21	10270.78	10046.71	10750.84
14	Revenue / Recoveries	9.82	10.65	12.90	17.00	14.93
15	Net Expenses	7833.44	8457.56	10257.88	10029.71	10735.91
16	Capital spares consumed	1686.18	1761.14	1127.30	1012.69	2182.76
	Total O&M Cost	9519.62	10218.70	11385.18	11042.40	12918.67
17	Expenditure of Capital nature as per accounting practice not claimed/ disallowed in capital cost	102.52	144.91	93.34	103.47	
	Total O&M Cost including SI No. 17 above	9622.14	10363.61	11478.52	11145.87	12918.67
	No. of Employee opting for VRS	0.00	0.00	0.00	0.00	0.00

Note:

- 1) Prior period expenses have been included in their natural head
- 2) Ex gratia has been included in PRP for the year 2008-09
- 3) Employee cost includes arrears
- 4) For 2012-13, data in respect of SI No.17 shall be submitted later

ANNEXURE-II

Pro-forma furnishing Actual annual performance/operational data for the Gas/ Liquid fuel based thermal generating stations for the 5 year period from 2008-09 to 2012-2013

	Particulars	Units	2008-09	2009-10	2010-11	2011-12	2012-13	Basis of information/ methodology
1	Name of Company		NTPC LIMITED					
2	Name of Station		KAWAS GAS POWER PROJECT					
3	Installed Capacity and Configuration	MW	656.2 (106*4+116.1*2)					
4	Make of Turbine		EGT-ALSTHOM					
5	Rated Steam Parameters		68.3 KSC / 5.2 KSC					
6	Average site ambient conditions		28 DEGREE AMBIENT TEMP					
7	Any other Site specific feature							
8	Fuels:							
8.1	Main / Primary Fuel:		Natural Gas/RLNG					
8.1.1	Annual Allocation or/ and Requirement	MnM ³ /MT	Allocation: As per Annexure attached Requirement: 1095 MMSCM					Requirement figures based on 85% PLF+ 3% (APC), normative HR and assumed GCV
8.1.2	Sources of supply		ONGC/GAIL, GSPCL					
8.1.3	Transportation Distance of the station from the sources of supply	km	Zone 1					
8.1.4	Mode of Transport		Pipeline					
8.1.5	Maximum Station capability to stock main/ primary fuel	MnM ³ /MT	NA					
8.2	Alternate Fuel:		Naphtha					
8.2.1	Annual Allocation or/ and Requirement	MnM ³ /MT/ KL	NA					
8.2.2	Sources of supply		HPCL					
8.2.3	Transportation Distance of the station from the sources of supply		4 KMs					
8.2.4	Mode of Transport		Pipeline					
8.2.5	Maximum Station capability to stock secondary fuels	KI	8000					
9	Cost of Spares:							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	709.65	465.59	2499.83	4025.21		2012-13 data to be submitted later
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	0	0	0	0		
10	Generation							
10.1	Actual Gross Generation at generator terminals	MU	3483.7	4327.2	3882.1	3608.4	2900.1	
10.1.1	Total	MU	3483.7	4327.2	3882.1	3608.4	2900.1	
10.1.2	On Gas	MU	2433.1	4295.0	3878.7	3606.9	2899.8	
10.1.2	On Naptha or any other fuel	MU	1050.6	32.2	3.4	1.5	0.3	
10.2	Actual Net Generation Ex-bus	MU	3429.6	4253.5	3808.5	3540.6	2839.0	
10.3	Scheduled Generation Ex-bus	MU	3414.4	4150.0	3699.9	3207.9	2512.5	
11	Average Declared Capacity (DC)	MW	535.6	570.1	582.0	613.8	576.4	
12	Actual Auxiliary Energy Consumption including colony consumption	MU	56.0	75.9	75.7	67.9	62.8	
13	Actual Energy supplied to Colony from the station	MU	2.8	2.5	3.0	2.9	3.0	
14	Main / Primary Fuel:							
14.1	Consumption :	MCM/MT/ KI						
14.1.1	Natural Gas :APM Gas (including PMT & KG D6)	MCM	198.2	335.0	650.3	640.7	505.4	
	Non-APM Gas	MCM				68.1	92.2	
14.1.2	RLNG	MCM	305.1	588.1	186.8	41.3	4.2	
14.1.3	Liquid Fuel	MT						
14.2	Weighted Gross Calorific Value (GCV)	(kCal/Kg/KL/1000 SCM)						
14.2.1	Natural Gas :APM Gas (including PMT & KG D6) (As fired)	(kCal/SCM)	10652.9	9849.4	9789.4	9760.2	9814.2	
	Non-APM Gas (As fired)	(kCal/SCM)				9774.8	9816.2	

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	Particulars	Units	2008-09	2009-10	2010-11	2011-12	2012-13	Basis of information/ methodology
1	Name of Company		NTPC LIMITED					
14.2.2	RLNG (As fired)	(kCal/ SCM)	9702.5	9505.1	9374.5	9668.8	9519.1	
14.2.3	Liquid Fuel (As fired)	(kCal/Kg/KL/1000 SCM)						
14.3	Weighted Average Price	(Rs/MT/KL/1000 SCM)						
14.3.1	APM Gas	(Rs/1000 SCM)	5080.1	5004.7	8013.6	9247.8	10367.8	
14.3.2	Non-APM Gas	(Rs/1000 SCM)	0.0	0.0	0.0	13257.3	13987.5	
14.3.3	RLNG	(Rs/1000 SCM)	33447.5	14047.1	15164.8	31777.0	31739.1	
14.3.4	Liquid Fuel	Rs/ Kl	Refer 15.3					
14.4	Percentage of Declared Capacity	% and MW						
14.4.1	APM Gas (including PMT & KG D6)	%	20.24%	30.53%	67.78%	57.49%	61.14%	
14.4.2	Non-APM Gas	%				5.57%	20.38%	
14.4.3	RLNG	%	34.18%	68.47%	30.09%	36.46%	18.31%	
14.4.4	Liquid Fuel	%	45.57%	1.00%	2.13%	0.47%	0.17%	
14.4	Actual Average stock maintained	MT/ KL						
14.4	Percentage of Declared Capacity	% and MW						
14.4.1	APM Gas (including PMT & KG D6)	MW	108.41	174.03	394.48	352.90	352.41	
14.4.2	Non-APM Gas	MW	0.00	0.00	0.00	34.20	117.50	
14.4.3	RLNG	MW	183.07	390.32	175.12	223.83	105.54	
14.4.4	Liquid Fuel	MW	244.08	5.70	12.39	2.92	0.98	
14.4	Actual Average stock maintained	MT	4159.08	2098.16	2856.93	3529.32	3526.051	
15	Alternate Fuel:							
15.1	Consumption	MT	183210.93	5793.43	658.02	205.37	17.71	
15.2	Weighted Average Gross Calorific value (As fired)	kCal/ Kg/ ltr	11377.6	11728.1	11312	11312	11312	
15.3	Weighted Average Price		35308.13	31270.04	33487.85	38481.74	44638.3	
15.4	Actual Average stock maintained	MT	4159.08	2098.16	2856.93	3529.32	3526.051	
16	Weighted average duration of outages							
16.1	Scheduled Outages	MU	224.63	152.05	333.2	146.02	487.3	
16.2	Forced Outages	MU	413.49	261.43	36.02	14.24	27.53	
16.3	Number of trippings	No	10	11	10	15	17	
16.4	Number of start-ups :	No	85	48	41	64	103	
17	Cost of spares consumed	Rs Lakh	2350.8	2627.8	2078.8	1789.9	3129.0	
18	Average stock of spares	Rs Lakh	4014.8	4004.1	4078.4	4179.0	4148.9	
19	Nox and other particulate emission							
19.1	Design value (NOx)	ppm	150					
19.2	Actual emission (NOx)	ppm	69-103	68-98	62-89	67-90	65-98	
20	Number of employees deployed in O&M							
20.1	Executives		100	108	109	107	110	
20.2	Non Executives		143	139	139	135	131	
20.3	Corporate office		3205	3272	3298	3354	3170	Total Corporate Man Power
21	Man-MW ratio		0.38	0.38	0.38	0.38	0.37	Excluding Corporate Man Power

Note:

Daily Gas Allocation at stations is done from 06:00 to 06:00 Hrs, hence GCV and pricing is based on weighted average of 06:00 to 06:00 Hrs period
 Daily Gas Consumption figures are based of 00:00 to 00:00 Hrs period.